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undergoes successive partly or totally diffusive reflections thereon and the amplifying medium is placed out of this beam directly stemming from the source so that this amplifying medium is optically pumped by the sole light reflected by the wall of the partly or totally diffusive reflector.

14. (New) An optical pumping module comprising a light amplifying medium, at least one light source for optically pumping the amplifying medium and a reflector which encircles the amplifying medium and the wall of the reflector is configured to reflect light from the source, wherein the reflector is partly or totally diffusive and the source is orientated so as to send a beam directly stemming from this source towards the wall of the reflector so that this beam undergoes successive partly or totally diffusive reflections thereon and the amplifying medium is placed out of this beam directly stemming from the source so that this amplifying medium is optically pumped by the sole light reflected by the wall of the partly or totally diffusive reflector.

15. (New) The module according to claim 14, wherein the amplifying medium forms a cylindrical rod with a substantially circular base, the light source is for transverse optical pumping of this medium, and the wall of the reflector forms a cylinder with generatrices parallel to an axis of the amplifying medium.

16. (New) The module according to claim 15, wherein the reflector has substantially a same length as the amplifying medium.

17. (New) The module according to claim 15, wherein the base of the cylinder formed by the wall of the reflector is selected from substantially regular polygons, ellipses, and circles.

18. (New) The module according to claim 15, wherein the light source is a light emitter and this light emitter is selected from a laser diode, a laser diode array, a row of laser

diode arrays, a stack of laser diode arrays, and a combination of the row and the stack, the arrays being parallel to generatrices of the cylinder formed by the wall of the reflector.

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19. (New) The module according to claim 15, further comprising several blocks, each block comprising a planar face, configured to reflect the light from the source in a partly or totally diffusive way, wherein the base of the cylinder formed by the wall of the reflector is a substantially regular polygon, this wall thereby comprising several sides, each of the sides being formed by two respective planar faces of two adjacent blocks.

20. (New) The module according to claim 19, wherein the light source is placed in a gap formed between two adjacent blocks in such a way that the light emerges from a space formed between the respective planar faces of these two blocks and reaches the wall of the reflector.

21. (New) The module according to claim 18, further comprising several blocks, each block comprising a planar face, configured to reflect the light from the source in a partly or totally diffusive way, wherein the base of the cylinder formed by the wall of the reflector is a substantially regular polygon, this wall thereby comprising several sides, each of the sides being formed by two respective planar faces of two adjacent blocks,

wherein the light source is placed in a gap formed between two adjacent blocks in such a way that the light emerges from a space formed between the respective planar faces of these two blocks and reaches the wall of the reflector,

wherein both blocks are electrically conducting and the laser diode or the laser diode arrays are electrically powered by these two blocks.

22. (New) The module according to claim 14, wherein the light source is a light emitter.